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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,138	12/01/2003	Jong-nam Park	1793.1089	1205
21171 STAAS & HA	7590 02/22/2007 LSEY LLP		EXAMINER	
SUITE 700			HALEY, JOSEPH R	
WASHINGTO	ORK AVENUE, N.W. N, DC 20005		ART UNIT PAPER NUMBER	
			2627 .	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	02/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summers.		10/724,138	PARK, JONG-NAM				
	Office Action Summary	Examiner	Art Unit				
		Joseph Haley	2627				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	the correspondence address	·			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH cause the application to become ABAN	TION. y be timely filed S from the mailing date of this communication. DONED (35 U.S.C. & 133)				
Status							
1)⊠	Responsive to communication(s) filed on 30 No	ovember 2006					
		action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
·	closed in accordance with the practice under E						
Dispositi	ion of Claims						
4)⊠	Claim(s) <u>1-9</u> is/are pending in the application.		•				
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1-9</u> is/are rejected.						
7)	_						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
•	The drawing(s) filed on is/are: a) acce		the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct		• •				
11)	The oath or declaration is objected to by the Ex						
Priority ι	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
_	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	$3.\square$ Copies of the certified copies of the prior	ity documents have been re	ceived in this National Stage				
	application from the International Bureau						
* S	See the attached detailed Office action for a list	of the certified copies not re-	ceived.				
Attachmen	• •	. —					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum Paper No(s)/N	mary (PTO-413) lail Date				
3) 🔀 Inforr	nation Disclosure Statement(s) (PTO/SB/08)		mal Patent Application				
Pape	r No(s)/Mail Date						

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DETAILED ACTION

Information Disclosure Statement

The Chinese Office Action of 8/11/06 has been considered but was lined through so as to not be printed on the front of the patent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita (US 6577566).

In regard to claim 1, the applicant's admitted prior art teaches a method of automatically pausing an optical pickup in a DVD-RAM disc drive, the method comprising: driving a DVD-RAM disc; generating a jump signal in response to a state of the land/groove signal varying; and moving the optical pickup back by 1/2 of a track in response to the jump signal (see paragraph 8 lines 1-5) but does not teach determining whether a tracking error signal is generated; generating a land/groove signal to discern land tracks and groove tracks; determining from which track the tracking error signal has been generated in response to the determination that the tracking error signal has been generated.

Tomita teaches determining whether a tracking error signal is generated (fig. 13B); generating a land/groove signal to discern land tracks and groove tracks;

determining from which track the tracking error signal has been generated in response to the determination that the tracking error signal has been generated (see fig. 13C).

The two are analogous art because they both deal with the same field of invention of switching from land to groove tracks.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita because using the polarity of a tracking error signal will accurately tell if the laser is on a land or a groove.

In regard to claim 2, Tomita teaches wherein the land/groove signal is at a first state when the optical pickup is positioned over the land tracks, the land/groove signal is at a second state when the optical pickup is positioned over the groove tracks, the land/groove signal transits from the first state to the second state or from the second state to the first state, and the optical pickup is positioned over either the land tracks or the groove tracks depending on the state of the land/groove signal (see figs 13 a and c see also column 24 lines 25-40).

In regard to claim 5, Tomita teaches a microcomputer of the DVD-RAM disc drive receives the land/groove signal and determines from which track the tracking error signal has been generated (see fig. 13).

In regard to claims 6 and 7, Tomita teaches wherein the first state is a high level and the second state is a low level and wherein the first state is a low level and the

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second state is a high level (see fig. 13C. In regard to the level of the signal, it makes no patentable difference whether the first or second state is high or low, as long as they are different and can be distinguished).

In regard to claim 8, see claim 1 rejection above.

In regard to claim 9, see claim 5 rejection above.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita further considered with Takahashi et al. (US 2002/0054974).

In regard to claims 3 and 4, the applicant's admitted prior art and Tomita teach all the elements of claims 3 and 4 except inspecting a quality of an RF of data recorded in the land tracks in response to data being recorded only in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks in response to data being recorded only in the groove tracks.

Takahashi et al. teaches inspecting a quality of an RF of data recorded in the land tracks in response to data being recorded only in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks in response to data being recorded only in the groove tracks (see paragraph 100. Takahashi et al. teaches adjusting the phase separately for the land and groove to improve SNR).

The three are analogous art because they all deal with the same field of invention of recording in optical media.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art with the tracking and

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land/groove signals of Tomita and the separate phase corrections of Takahashi et al.

The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita and the separate phase corrections of Takahashi et al. because treating the land and grooves separately improves the quality of the signal.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita further considered with Yamamuro (US 5793722).

In regard to claim 9, the applicant's admitted prior art and Tomita teach all the elements of claim 9 except wherein the optical pickup is automatically paused in response to the land/groove signal.

Yamamuro teaches wherein the optical pickup is automatically paused in response to the land/groove signal (see abst. where Yamamuro teaches stopping a tracking operation while jumping from a land to a groove. See also fig. 16.)

The three are analogous art because they all deal with the same field of invention of switching from land to groove tracks.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita and the track switching operation of Yamamuro. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of

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Tomita and the track switching operation of Yamamuro because there would be greater accuracy in switching tracks if the optical pickup was stopped.

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Response to Arguments

Applicant's arguments filed 11/30/06 have been fully considered but they are not persuasive. In regard to claims 1 and 8, applicant argues on page 7, paragraph 3 that "This section does not mention or suggest generating a jump signal in response to a state of a land/groove signal varying, and moving the optical pickup back by ½ of a track in response to the jump signal". However, the examiner maintains this rejection because as is shown in the applicant's admitted prior art upon automatic pausing of the optical pickup the pickup is moved back ½ of a track. Tomita teaches moving the pickup whole tracks using the land/groove signals (see column 27 lines 18 and 19). It would have been obvious to use the land/groove signals of Tomita to move the pickup back ½ of a track as is required in the prior art.

In regard to claim 9, applicant argues on page 9, paragraph 4, that AAPA, Tomita and Yamamuro do not teach, "wherein the optical pickup is automatically paused in response to the land/groove signal". However the examiner maintains this rejection because Yamamuro teaches stopping a tracking operation during the generation of a jump pulse which is generated from the land groove signal. During a tracking operation of an optical system, there is movement of the optical pickup. If the tracking operation is paused the optical pickup would be paused; therefore, these two are equivalent.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Haley whose telephone number is 571-272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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jrh

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